



MODERN PLANT

**STUART
TURNER**
ENGINEERED TO EXCEL



**POWERING
WATER
FOR EVERY
APPLICATION**

AQUABOOST | MAINSBOOST | MONSOON | SHOWERMATE | WASTEFLO | STUART

Mainsboost

Mains water pressure boosting systems



Solving the problem of poor mains water performance! Mainsboost Water Performance Systems are specifically designed to stabilise water pressure and dramatically improve flow rates to all direct on mains appliances. They deliver improved performance from unvented water cylinders, combination boilers and high performance shower heads, allowing multiple outlets to run simultaneously.



Performance
on demand

Mainsboost Features and benefits

Mainsboost offers the easiest solution to low or intermittent mains water pressure for any sized property, using simple and effective patented technology to ensure that when an outlet is opened, an unrestricted flow of water is delivered at pressure to boost the incoming mains water supply, and allow combination boilers and unvented hot water cylinders to perform at their optimum, with guaranteed performance to power luxury modern shower heads. Delivering water where you want it, when you want it!



Performance

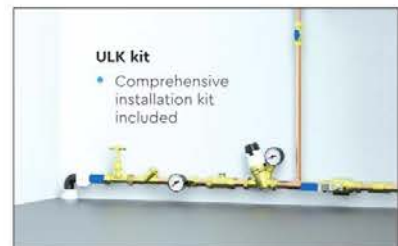
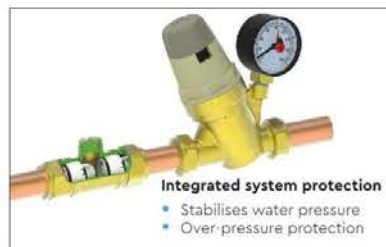
- Up to 80 litres/minute per vessel
- 100 – 2000 litre capacity vessel options
- Silent operation
- Minimal maintenance
- Consumes no electricity

Quality

- UK water regulations compliant
- WRAS approved
- ISO 9001:2015
- CE compliant

Reliability

- 5 year guarantee
- Robust construction
- Long life butyl diaphragm
- Integral strainer



Good to know

Mainsboost products are supplied with a comprehensive upstream line-in kit for ease of installation.

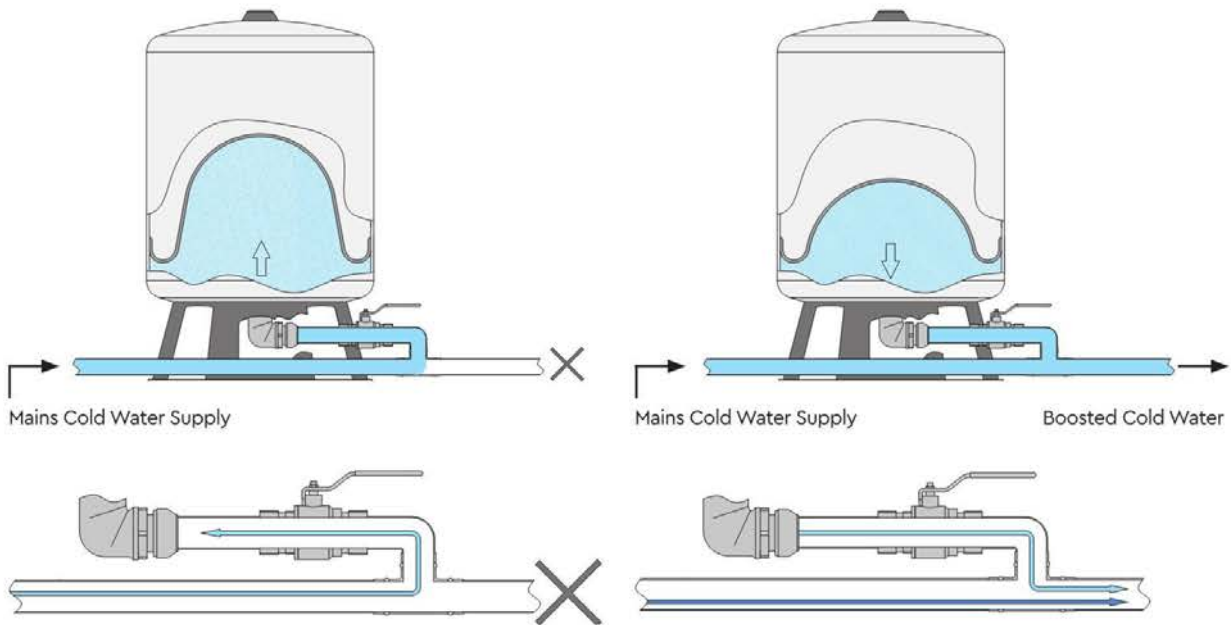
A Stuart water conditioner will not only enhance the lifespan of your Mainsboost product, it will also ensure your hot water system maintains energy efficiency.

Did you know

All Mainsboost systems are compatible with the Aquastor range of unvented hot water cylinders, creating the perfectly matched hot and cold water system. Our TechAssist team are happy to provide help and advice over the phone, and our team of Specification Managers will provide site survey assistance.

Mainsboost operation

The 'how it works' diagram below explains the operation of a Mainsboost system



1. Filling vessel

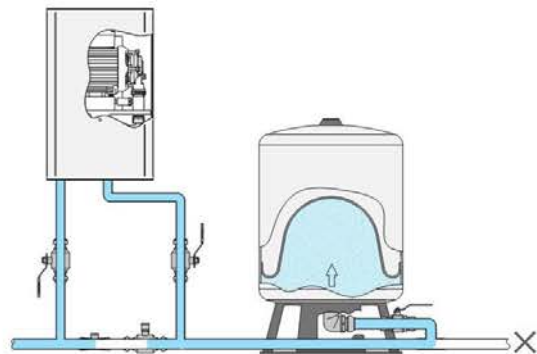
The Mainsboost vessel stores water from the mains water supply in a sealed water chamber, separated from the air space by a virgin butyl diaphragm and pressurised to an optimum setting.

2. Discharging vessel

When water is drawn off by downstream services, the water from the mains is supplemented by the water from the Mainsboost unit to provide a balanced supply at consistent pressure to downstream services.

3. With Charger pump

In some circumstances where the mains pressure is less than 2.0 bar, it will be necessary to boost the pressure in order to achieve optimal performance. The Charger pump is designed specifically to do this.



Did you know

80% of Mainsboost installations don't require a separate pump to boost system flow rates, operate completely silently and don't consume any electricity.

Mainsboost Product range



Mainsboost

Designed for direct on mains systems (unvented cylinders and combination boilers) where mains pressure is greater than 2.0 bar but water flow is inadequate. Mainsboost is installed directly onto the incoming water supply and under mains pressure fills with water. The CAD2 water chamber is surrounded by positive pre-charged air pressure sealed within the vessel. When the chamber is full the unit reaches a state of pressure equilibrium, meaning the water pressure and pre-charge pressure are balanced. The Mainsboost system now has a volume of pressurised water ready for distribution throughout the property.

For properties with greater demand, Mainsboost can be supplied in multiple vessel systems.

Part No	Model
44452	MB 100SV-1-22
44453	MB 100SV-2-22
44454	MB 100SV-3-22
44455	MB 130SV-1-22
44456	MB 130SV-2-22
44457	MB 130SV-3-22
44458	MB 200SV-1-22

Part No	Model
44459	MB 200SV-2-22
44460	MB 200SV-3-22
44461	MB 250SV-1-22
44462	MB 250SV-2-22
44463	MB 250SV-3-22
44464	MB 300SV-1-22
44465	MB 300SV-2-22

Part No	Model
44466	MB 300SV-3-22
44467	MB 450SV-1-22
44468	MB 450SV-2-22
44469	MB 450SV-3-22
44470	MB 450SV-1-28
44471	MB 450SV-2-28
44472	MB 450SV-3-28

Part No	Model
44853	MB 750SV-1-35
44746	MB 1000SV-1-35
44854	MB 1500SV-1-35
44855	MB 2000SV-1-35



Mainsboost Horizontal

Specifically suited to properties where space and height is restricted, Mainsboost Horizontal systems are supplied with a purpose designed mounting cradle, making them easy to install in loft spaces or basements.

Maximum height 560 mm or 800 mm with Charger pump fitted.

Part No	Model
44747	MB 200SH-1-22
44748	MB 200SH-2-22
44749	MB 200SH-3-22
44750	MB 250SH-1-22
44751	MB 250SH-2-22
44752	MB 250SH-3-22



Mainsboost Composite

Mainsboost Composite offers all the performance benefits of the standard Mainsboost range, housed in a composite vessel which is 30% lighter than the standard Mainsboost steel vessel.

Their lightweight composite body makes them easy to manoeuvre and install in places with difficult access and limited structural strength.

The unique construction of the Mainsboost Composite vessel ensures exceptional standards of water hygiene and makes them the preferred choice for health care facilities.

Mainsboost Composite are WRAS Approved and guaranteed for 5 years.

Part No	Model
44512	MB 100CV-1-22
44513	MB 100CV-2-22
44514	MB 100CV-3-22
44515	MB 130CV-1-22
44516	MB 130CV-2-22
44517	MB 130CV-3-22
44518	MB 200CV-1-22

Part No	Model
44519	MB 200CV-2-22
44520	MB 200CV-3-22
44521	MB 250CV-1-22
44522	MB 250CV-2-22
44523	MB 250CV-3-22
44524	MB 350CV-1-22
44525	MB 350CV-2-22

Part No	Model
44526	MB 350CV-3-22
44527	MB 450CV-1-22
44528	MB 450CV-2-22
44529	MB 450CV-3-22
44530	MB 450CV-1-28
44531	MB 450CV-2-28
44532	MB 450CV-3-28

Mainsboost 250SV-3



Mainsboost Product range

5 YEAR
GUARANTEE

From **40 dB(A)**
Quiet Operation

WRAS
APPROVED PRODUCT



Mainsboost Charger pump wall mounted - Supplied within a sound attenuation casing

Where mains water pressure is less than 2.0 bar a Mainsboost Charger pump is the solution. Mainsboost Charger pumps will boost pressure by 3.5 bar when supplied in conjunction with Mainsboost steel or composite vessels and can be located remotely from the Mainsboost vessel without restricting performance.

Mainsboost Charger wall mounted pumps are supplied within a noise reducing enclosure.

Part No	Model
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44725	MBC 12-22 WM
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44726	MBC 12-28 WM
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5 YEAR
GUARANTEE

From **50 dB(A)**
Quiet Operation

WRAS
APPROVED PRODUCT



Mainsboost Charger pump vessel mounted

Where vertical space is not an issue the Mainsboost vessel mounted Charger pump may be the answer. Mainsboost vessel mounted Charger pumps offer the same performance benefits as the wall mounted variant and can be used in conjunction with Mainsboost Steel vessels.

Part No	Model
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41712	MJ3 VM (Compatible with steel vessels only)
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41729	MJ3 HM (Compatible with 200 & 250 ltr horizontal steel vessels only)
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1 YEAR
GUARANTEE



Mainsboost Sound attenuation cover

Designed for use with Mainsboost Charger vessel mounted pumps where noise levels need to be minimised. Reduces noise levels by up to 10 dB(A).

Part No	Model
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44620	MBP SAC (Compatible with all vessel mounted charger pumps)
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1 YEAR
GUARANTEE



Mainsboost insulation jacket for steel vessels

Mainsboost Insulation Jackets are tailor made to ensure a perfect fit and protect Mainsboost vessels from extremes of hot and cold temperatures, ensuring the potable water stored within the Mainsboost vessel is at the perfect temperature.

Part No	Model
20257	MB 100S JKT compatible with Mainsboost MB 100S
20248	MB 130S JKT compatible with Mainsboost MB 130S
20249	MB 200S JKT compatible with Mainsboost MB 200S
20250	MB 250S JKT compatible with Mainsboost MB 250S
20252	MB 300S JKT compatible with Mainsboost MB 300S
20253	MB 450S JKT compatible with Mainsboost MB 450S

1 YEAR
GUARANTEE



Mainsboost insulation jacket for composite vessels

Mainsboost Insulation Jackets are tailor made to ensure a perfect fit and protect Mainsboost vessels from extremes of hot and cold temperatures, ensuring the potable water stored within the Mainsboost vessel is at the perfect temperature.

Part No	Model
20569	MB 100C JKT compatible with Mainsboost MB 100C
20517	MB 130C JKT compatible with Mainsboost MB 130C
20515	MB 200C JKT compatible with Mainsboost MB 200C
20251	MB 250C JKT compatible with Mainsboost MB 250C
20245	MB 350C JKT compatible with Mainsboost MB 350C
20244	MB 450C JKT compatible with Mainsboost MB 450C

Mainsboost Flomate features and benefits

Mainsboost Flomate systems are designed to be connected directly to the incoming mains. Mainsboost Flomate provide a regulated flow of water, are WRAS Approved and fully compliant with UK water regulations. Designed to be compact and simple to install with no on-site commissioning required, Mainsboost Flomate can be installed discreetly within a standard kitchen cupboard unit.



Performance

- Output flow rate 12 – 30 litres/minute
- 2.2 – 3.2 bar pressure
- 60 – 300 litre capacity vessel options
- Built-in bypass
- Quiet operation
- Automatic switching
- Dry run protection
- Continuously rated

Quality

- UK water regulations compliant
- WRAS approved
- ISO 9001:2015
- BS EN 60335 compliant
- CE compliant

Reliability

- 3 year guarantee
- Robust brass construction
- Long life mechanical seal
- Service kit available

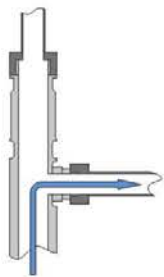
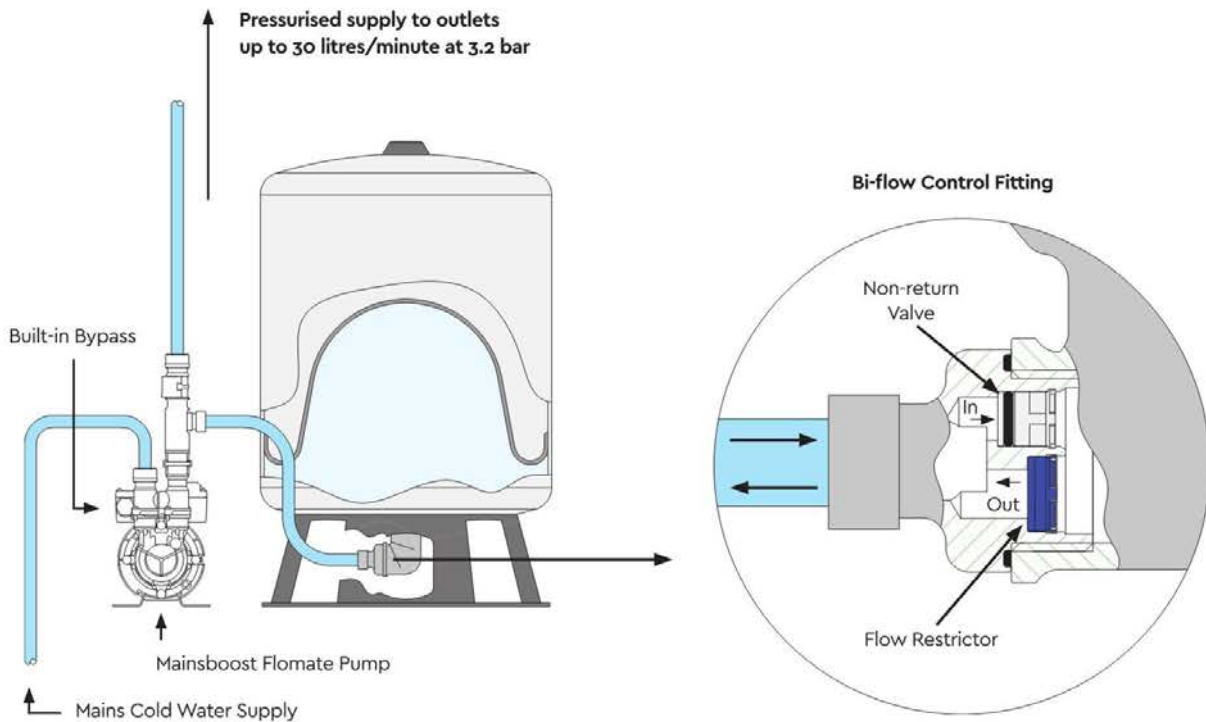


Good to know

Mainsboost Flomate are supplied with anti-vibration feet and a comprehensive upstream line-in kit for ease of installation.

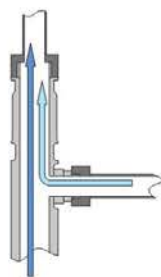
Mainsboost Flomate operation

The 'how it works' diagram below explains the operation of Mainsboost Flomate 60/80/100/200/300



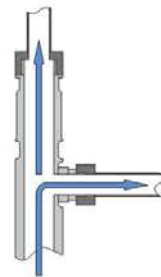
1. Filling vessel

When first used the pump automatically starts and supplies the vessel until fully charged. Once charged, the pressure in the vessel will maintain a minimum of 3.2 bar and the pump will stop.



2. Outlet demand greater than 12 litres/minute

Demand up to 12 litres/minute will be supplied directly by the pump. There will be a small supply from the vessel as the pressure in the vessel equalises. Where demand is greater than 12 litres/minute, the vessel will supplement the additional demand up to 30 litres/minute dependant on the chosen model.



3. Outlet demand less than 12 litres/minute

If demand from the outlet is less than 12 litres/minute the additional flow will be used to re-charge the vessel. In all cases the pump will continue to run after the outlets are closed and until the vessel is re-charged.

Mainsboost Flomate product range

3 YEAR
GUARANTEE

from **46** dB(A)
Quiet Operation

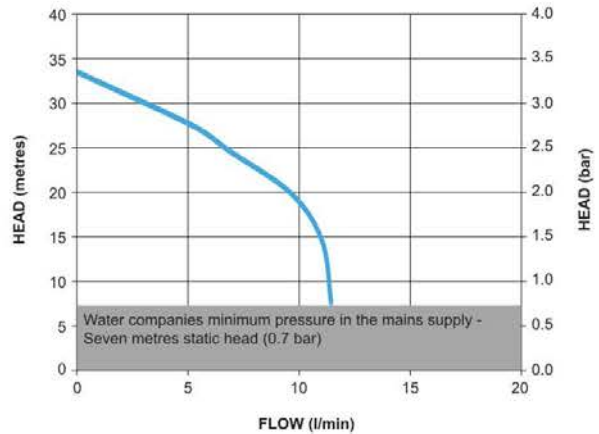
PATENT
PROTECTED

WRAS
APPROVED PRODUCT



Mainsboost Flomate pump

Suitable for low occupancy properties typically with one bathroom. The Mainsboost Flomate Pump is designed to be connected directly to the incoming mains and will deliver an additional 1.5 bar pressure to the existing mains pressure and a maximum flow rate of 12 litres per minute. The pump will start automatically when a flow rate of 0.6 litres per minute or more exists.



Part No	Model
46574	MBF 12

3 YEAR
GUARANTEE

from **46** dB(A)
Quiet Operation

PATENT
PROTECTED

WRAS
APPROVED PRODUCT



Mainsboost Flomate 60/80

Designed for higher occupancy properties and to fit neatly within a standard 500 mm kitchen base unit. Mainsboost Flomate 60 and 80 products can be connected directly to the incoming mains and will deliver up to 16 litres per minute flow at 3.2 bar pressure to multiple outlets within the property, up to the preset cut-in limit of the 60 or 80 litre pressure vessel, at which time the system will deliver 12 litres per minute until demand ends and the pressure vessel recharges.

Part No	Model
46631	MBF 60-1-15
46634	MBF 80-1-15

3 YEAR
GUARANTEE

From **46** dB(A)
Quiet Operation

PATENT
PROTECTED

WRAS
APPROVED PRODUCT



Mainsboost Flomate 100/200/300

Mainsboost Flomate 100, 200 and 300 are suitable for larger properties with multiple bathrooms and outlets. Designed to sit within a typical kitchen 600 mm larder style cupboard it will deliver up to 30 litres per minute flow at 3.2 bar pressure, dependant on the chosen pressure vessel variant, to multiple outlets within the property, up to the preset cut-in limit, at which time the system will deliver 12 litres per minute until demand ends and the pressure vessel recharges.

Part No	Model
46635	MBF 100-1-15
46636	MBF 200-1-15
46637	MBF 300-1-15

Good to know

Mainsboost Flomate offers pressurised supply of water for a defined period of time, the chart below is for guidance only.

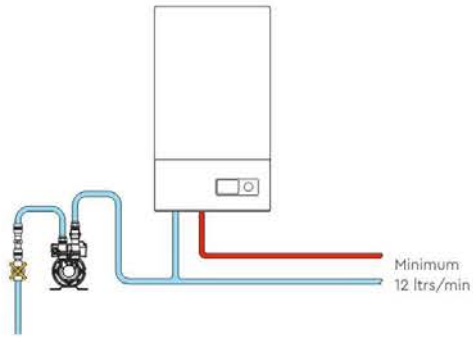
	Typical run times in minutes		
	12 ltr/min	16 ltr/min	18 ltr/min
MBF 12	Constant	-	-
MBF 60	Constant	8	-
MBF 80	Constant	12	-

	Typical run times in minutes				
	12 ltr/min	16 ltr/min	18 ltr/min	24 ltr/min	30 ltr/min
MBF 100	Constant	16	8	-	-
MBF 200	Constant	24	18	8	-
MBF 300	Constant	40	24	16	8

Mainsboost Schematics

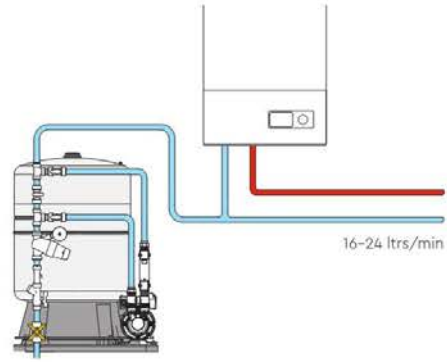
Combi boiler

Typical application: Mainsboost Flomate pump



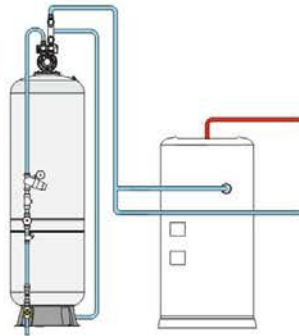
Combi boiler

Typical application: Mainsboost Flomate 60, 80, 100, 200



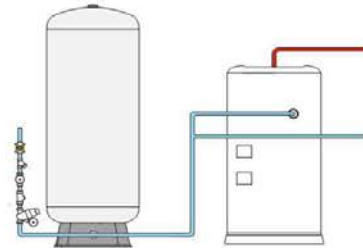
Unvented hot water cylinder

Typical application: Mainsboost with vessel mounted Charger pump or Mainsboost Flomate 200, 300



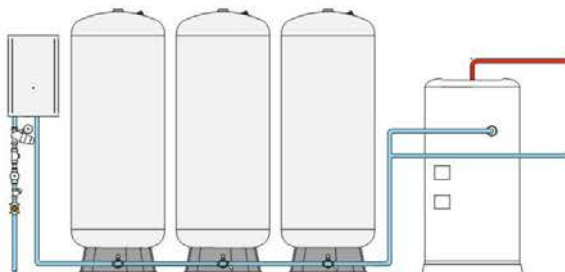
Unvented hot water cylinder unlimited supply

Typical application: Mainsboost (Vertical)



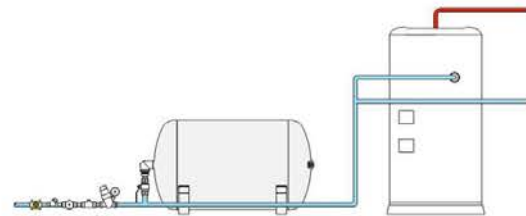
Unvented hot water cylinder

Typical application: Mainsboost with wall mounted Charger pump



Unvented hot water cylinder unlimited supply

Typical application: Mainsboost (Horizontal)



Did you know

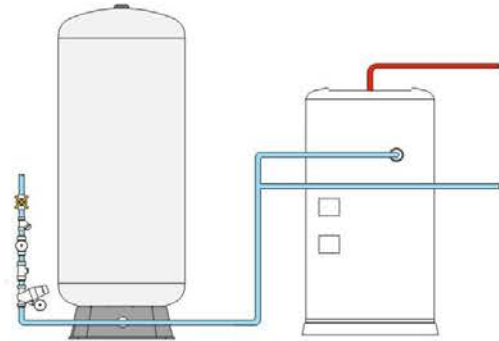
Stuart Turner also offer the Aquastor range of unvented indirect hot water cylinders; performance matched to the Mainsboost system and providing the perfect combination of boosted hot and cold water supply to our customers.

A team of dedicated Area Sales Managers are available to work in partnership with you, to provide a site survey, full specification and free quotation service for your project. We also provide over the phone help, ensuring you make the right decision, and install the correct equipment, every time!

Telephone: **TechAssist +44 (0) 800 31 969 80**

e-mail info@stuart-turner.co.uk or visit the support section of the Stuart Turner website to find our specialist in your area. www.stuart-turner.co.uk

Mainsboost and Stuart Aquastor unvented hot water cylinders



Under the kitchen sink of a small property.

Typical application:
Mainsboost Flomate MBF 12

Standard 500 mm kitchen base unit of a mid sized property.

Typical application:
Mainsboost Flomate 60

Standard 500 mm kitchen base unit of a mid sized property.

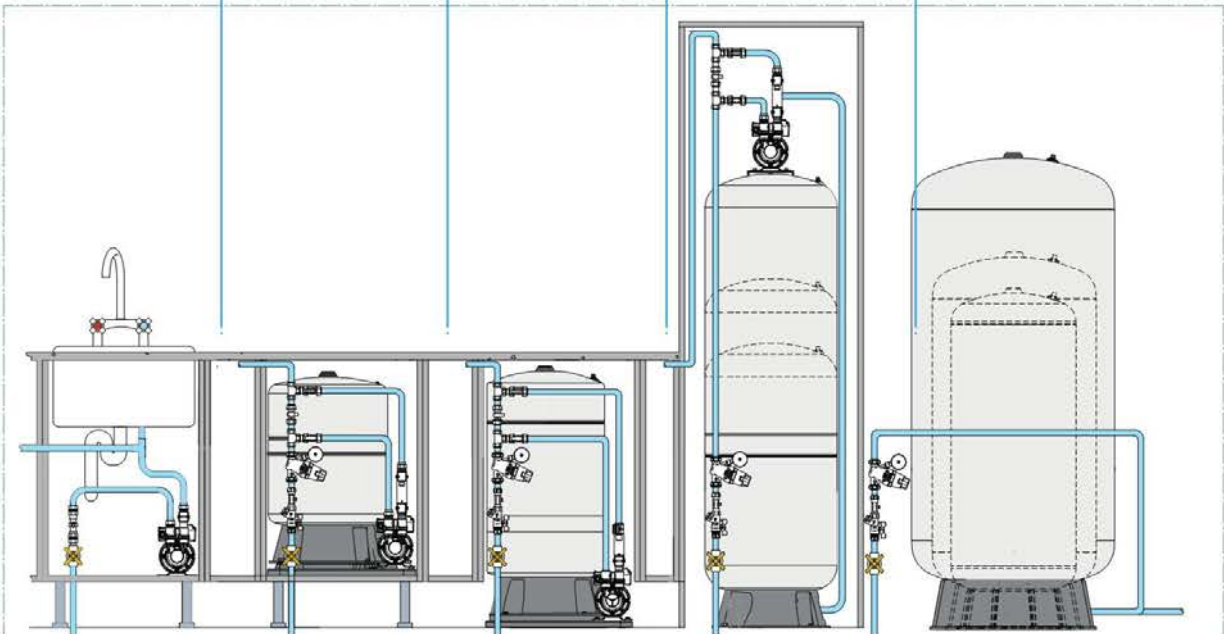
Typical application:
Mainsboost Flomate 80

Within a tall 600 mm standard kitchen unit of a larger property with higher occupancy.

Typical application:
Mainsboost Flomate 100-300

Suitable for a larger property with higher occupancy and demand.

Typical application:
Mainsboost



Mainsboost Applications

This application table is a general guide only and individual site conditions may vary. For advice or technical assistance in choosing the right Mainsboost system, please contact [TechAssist on +44 \(0\) 800 31 969 80](tel:+44208003196980)

	Unlimited water volume		Defined water volume					
	No space constraints		Limited space					
	Mainsboost Range	Mainsboost With Charger Pump	Mainsboost Flomate	Mainsboost Flomate 60	Mainsboost Flomate 80	Mainsboost Flomate 100	Mainsboost Flomate 200	Mainsboost Flomate 300
House – 1 bathroom	●	●	●	●	●	●	●	●
House – 1 bathroom + cloakroom	●	●		●	●	●	●	●
House – 1 bathroom + 1 en-suite	●	●					●	●
House – 1 bathroom + 2 en-suites	●	●						●
Larger properties with more than 1 bathroom + 2 en-suites	●	●						
Supply direct to a Combination Boiler	●	●	●	●	●	●	●	●
Unvented stored water system up to 150 litres	●	●						●
Larger property with stored water system greater than 150 litres	●	●						
Hotel	●	●						
Apartment block	●	●						
Commercial	●	●						

Mainsboost Dimensions and weights

Model	Mainsboost Dimensions			Weight	With MJ3 Charger Pump Fitted		
	Height (mm)	Width (mm)	Depth (mm)	Empty/ Max kg	Height (mm)	Width (mm)	Depth (mm)
Mainsboost							
MB 100SV	890	410	410	18/118	1120	440	485
MB 130SV	1100	410	410	22/152	1335	440	485
MB 200SV	1030	535	535	34/234	1280	535	548
MB 250SV	1210	535	535	39/289	1455	535	548
MB 300SV	1505	535	535	47/347	1740	535	548
MB 450SV	1545	660	660	72/522	1775	660	660
MB 750 SV	1950	750	750	86/836	-	-	-
MB 1000 SV	2180	800	800	141/1141	-	-	-
MB 1500 SV	2380	960	960	226/1726	-	-	-
MB 2000 SV	2520	1100	1100	346/2346	-	-	-
Mainsboost Horizontal							
MB 200SH	558	540	1026	39/239	795	540	1026
MB 250SH	558	540	1206	44/294	795	540	1206
Mainsboost Composite							
MB 100CV	980	421	449	11/111	-	-	-
MB 130 CV	1242	421	449	14/144	-	-	-
MB 200CV	1099	546	578	19/219	-	-	-
MB 250 CV	1355	546	578	23/273	-	-	-
MB 350 CV	1448	618	650	32/382	-	-	-
MB 450CV	1832	618	650	39/489	-	-	-
Charger pump – wall mount							
MBC 12 WM	465	290	180	15			

Model	Mainsboost Flomate Dimensions			Weight
	Height (mm)	Width (mm)	Depth (mm)	Empty/ Max kg
Mainsboost Flomate				
MBF 12	231	210	130	5
MBF 60	663	480	457	20/80
MBF 80	852	480	457	24/104
MBF 100	1134	461	430	27/127
MBF 200	1390	556	532	42/242
MBF 300	1847	556	532	56/356

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Issue No 4617/10-01



For more information about Stuart Turner or any other Stuart Turner product please contact Modern Plant. Our team of experts are on call to answer all your questions and provide you with advice to ensure your project is successful.

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